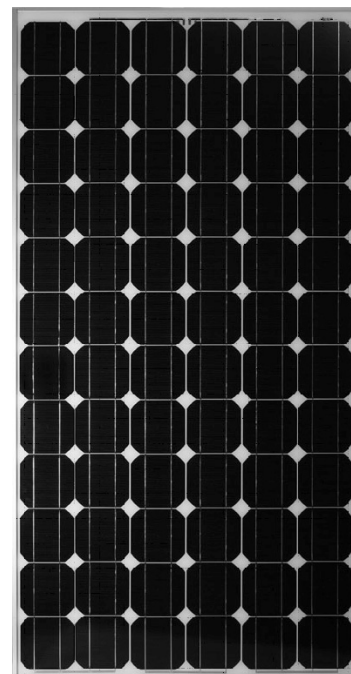


Power

175Wp Photovoltaic Module

Model: TDB125x125-72-P



- Encapsulated Design Resists Corrosion
- No Maintenance Required
- Manufacturer warranty: 80% peak power after 25 years, 90% after 10 years
- Designed According to CE, IEC61215 Standard, SC-II
- 5-year product warranty

Alpha silicon solar modules use breakthrough technology perfected by nearly 40 years of manufacturing technology.

These modules use a textured cell surface and tempered glass to reduce reflection of sunlight. The anti-reflective coating increases the absorption of light in all weather conditions.

These solar modules can be applied in many areas including building roofs, photovoltaic power plants, telecommunication hubs, weather stations, broadcast towers, navigation marks, railways and road intersections.

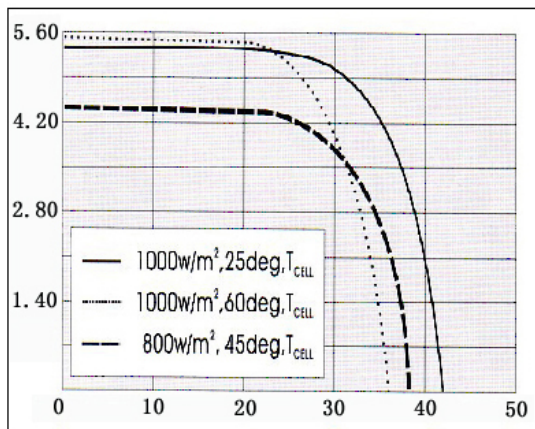


175Wp Photovoltaic Module / Model: TDB125x125-72-P

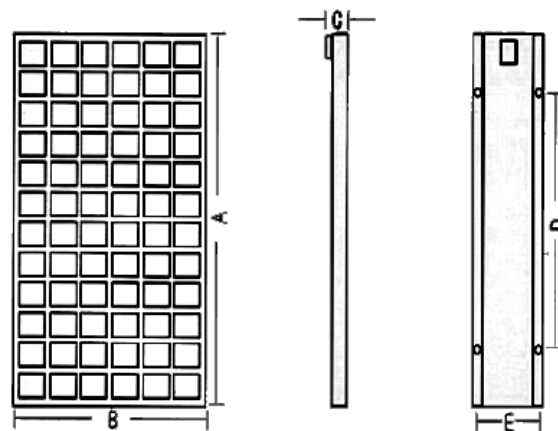
Electrical Characteristics	
Maximum Power (Pmax)	175Wp
Power Tolerance	±3 %
Maximum Power Voltage (Vmp)	35.2 Volt
Maximum Power Current (Imp)	4.96 Ampere
Open circuit Voltage (Voc)	44.0 Volt
Short circuit Current (Isc)	5.48 Ampere
Maximum System Voltage	750V (IEC 61215 & TÜV Rheinland)
Module Efficiency	13.7 %
Temp. coefficient Voc	-0.35±0.02 %/°C
Temp. coefficient Isc	+0.04±0.0015 %/°C
Temp. coefficient Power	-0.5±0.05 %/°C
Nominal operating cell temperature (NOCT)	47°C±2°C
Cells	
Cell Type	Mono-Crystalline
Cell Size	125 x 125 mm
Cell Shape	Quasi Square
Number Cells	72 in series
Encapsulated Solar Cells Efficiency	16.4 %
Standard Test Conditions	
AM	1.5
Irradiation	1000 W/m ²
Tc	25 °C

Mechanical Characteristics	
Length	1580 mm
Width	808 mm
Depth	46 mm
Weight	16 kg
Front glass thickness	3.2 mm
Encapsulant	EVA
Back side	TPT
Packing/Transport Information	
Packing configuration	10 pcs per carton
Size of Carton	1630x550x900 mm
Weight of Carton	9 kg
Cartons per 20' container	24
Cartons per 40' container	56
Absolute Maximum Rating	
Operating Temperature	-40 to +90 °C
Storage Temperature	-40 to +90 °C
Dielectric Isolation Voltage	1000 VDC max
Maximum Wind Resistance	60 m/s
Maximum Load Capacity	200 kg/m ²
Maximum Hail diameter @ 80km/h	25 mm @ 80km/h

Current-Voltage Curves



Module Drawing and Measurements



A: 1580MM B: 808MM C: 46MM D: 1176±2MM E:737±2MM

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